

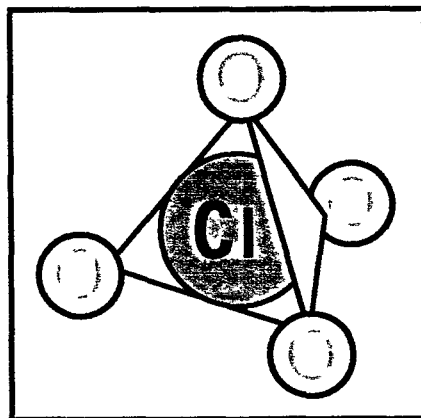


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Overhead Notes

PERCHLORATE STAKEHOLDERS FORUM

MAY 19-21, 1998



D S C
SPONSORED BY THE
INTERAGENCY PERCHLORATE
STEERING COMMITTEE

SESSION 1

- Future involvement and communication

- Information collection rule does not include perchlorate

- What is being done to involve other regions, Air Force

- Work with states to alert public/action; also water providers – consider monitoring

- Web site – keeping up to date (USEPA OW responsibility)

-Informing other states (35) –
information sent to EPA Regional
Administrators, Water, Superfund
and HW Division Directors by R9
Regional Administrator

- recommend monitoring of wells
- did not send directly to states in
other regions

-EPA studies along Colorado River –
resources needed; need to establish
quality program for perchlorate

-EPA is working with Congressional
appropriations committee on needed
resources/studies needed

-need to identify analytical
laboratories which can analyze for
perchlorate

-need information
sharing/coordination for Colorado
River studies – past/future reports

-how is the IPSC Steering Committee
going to get buy-in of
science/toxicology/public (peer
review) so that it is defensible to the
public?

2) funding sources?

3) ~~not~~ occur trmt/research program

4) maintain integrated approach

FACAT (New? existing?)

Non-FACA group

web page.

M. Davis (MWD)

GW sources

Money available?

Gov't
Private

Treating will be more difficult
What assistance available to
treat?

OSINSKI

No resources for study
Working towards
EPA appropriations report to Congress
~~Congressional report~~ not yet ready.
will be web-posted

Jane Williams

re-inject GW & later find problems.
^{need} Lower detection limits
^{need}

FY99 appropriations incl. perchlorate?
Need a FACA or become part
of NEJAC or Children's
Health FACA.

FACA could support appropriate
request.

SESSION 2 (2)

→ Will a budget request come from mtg.

Report to Congress

Will concerns ~~about~~ raised here be included?

Will reflect early meetings?

Each area is here ~~was~~ are reflected in report.

Need public support of process.

Stakeholders need to be involved.
"Corporate" fast pace

Frank Blaha (AUMW)

1. Issue: only in QA? SW?

2. Need a contact person in each

3. every Region

Ref. on RCRA, CERCLA, DWA lists.

Response

Attending Regional Risk Assessors mtg.

Waste OD mtg. agenda item

But call w/ Risk Assessors

DA Branch Chief letter to counterpart.

Also to SE OD.

R2 + R6

Largely western issue
limited recognition elsewhere.

Matthew LeVias

* for tox studies for Tribes
Resp: Get Indian comm. involved
DIA and INS attending?
Other chemicals in Co River
Chromium

R9 + 106 tribal comm more involved
Steve Lopez

also need tribal staffing

Tribes could form an alliance
Mexico needs to be informed
Las Vegas TRIBES represent?

Ben M.

more monitoring at the border.
more work w/ Tribes

Ray Natfman USGS

NASQ

penetration not included for
routine monitoring

Santa Ana River study Sec 2 (4)
could focus on perchlorate
& he can contact

Other Nations contacted?

Interest in other countries
Europe

P being sent to other countries

Int'l Soc. for ENV. Assessment

could be useful publication

Tap into existing publications

Chuck

Need it, & need it fast.

But federal process can be s/o

How much & for what?

How to get it.

Alert Congress to need

LEPA & AF cannot do this)

See example of sam for treatment res.
Other State & other sources.

SESSION 2 / Health Effects + Toxicity

- Copies of handouts or on the Web site – speaker handouts on Thursday if possible or speaker handouts will be sent to forum participants

- A forum attendance list will be provided to all participants on Wednesday.

- Does EPA exchange information among offices/regions on perchlorate? ✕

- Conference calls monthly for IPSC – others may participate if they desire.

- All IPSC calls/meetings open to members of the public.

- IPSC agency representatives have been invited to speak at a number

of different types of meetings. A presentation on perchlorate issues will be part of the agenda at the USEPA Risk Assessors Meeting in June 1998.

Comments

Steve L. - I include floor comments.

Prepared comments shld be distributed

will be discussed at Steering Comm.

Richard Pleus

Good science key.

Opp. for human studies

Steve L.

ann. opportunity to submit documents to be included

→ Within next month, submit copies. Comments.

10. a due date for stmts from participants to be included in mtg summary

Dorothy

Does,

Info submitted should be part
of official record.

Too tedious to send it out to all.

1 year to develop & publish
health advisory

Bill

SCWC

Process good

Next phase - MCL

Implementors - ^{only}
perchlorate, one issue

Need to ID control technologies
w/ cost information

Costs can vary depending on
situation. (eg. small systems)

CA: ~~I~~ may move ahead.

Steve Lamm

Exposure vs Dose.

Monkey studies could help

at low exposure levels (PPD)
ADAM studies should address.

SESSION 3 - *Eco Impacts, Transport & transformation*

-Are there locations where NDMA has been detected in drinking water wells with perchlorate? *✓*

-Is there uptake of perchlorate to bone marrow? *??*

-What are the pH effects of perchlorate in the human gut, mother/infant guts (breast milk)

-Is excavation of the source areas a possibility?

-Is it possible to put some kind of rapid interception system in place?

- slurry walls at source

- pump/treat system

-Use of radio-labelled perchlorate in studies to resolve analytical difficulties

-Ammonium transformation in environment not verified; pH dependent phenomenon (mass balance needed)

-What about saline or brackish environmental toxicity?

-Fate and transport difference between various perchlorate compounds (NH_4^+ , K^+ , Na^+ ...)

-Soil material effects on fate and transport

-Vadose zone, capillary fringe

- Toxicology – immunotoxicology not mutually exclusive
- Green house conditions different from field crop irrigation
- Lettuce assay method development – tissue concentration measurement
- Greatest exposure to aquatic organisms
- Testing phytoplankton and zooplankton as a major link in food chain-is this part of the current studies?

-Razorback sucker (endangered fish) exposed in Las Vegas Bay; have observed razorback suckers with lesions-the source of this is not identified.

-Migratory birds use Lake Mead – acute and chronic studies needed reproductive endpoints

Session 3 comments
Richard Pleus

Peer review w/ for eco risk assessment?

Resp: Yes we can do.

Will raw data be released

Resp: No. Will be available w/ assessment w/ individual animal data.

(1)

SESSION 4

-We need to conduct analysis for perchlorate in soil (water extraction)

M. Davis

Need an approved method.

EPA published method

DW office pushing to get method published. Critical.

Chuck Elkies

How are labs "certified" to use published method

Richard Brown LLC

Using CA method

Will this data be disallowed?

~~CA data~~ Data collected by CA method is good for now.

Under SF, is CA method OK?

Richard Brown Peter G.

CA is the best we have now.

David Tai

Moving toward perf.-based methods.
Specify experienced ~~analysts~~, analysts.
Steve Lamm

Need method to measure perchlorate
in urine

Looking at results from around
country.

SESSION 5

-Trying to oxidize perchlorate?

myo tested ozone, found 1.4% value.

-Need to find ^{tmt}vulnerable water agencies

-What was the regenerant for ion exchange?

-Will there be a press release?

-Is perchlorate considered hazardous?

-How many workers are exposed?

-Will ion-exchange remove carbonate/bicarbonate

Session 5

20 year operating life of system
(probably)

Norm Wagner

Capital costs (10-year)

Operating costs

Costs vary considerably

Every situation different - impacts costs.

Bill G.

Ongoing operating costs.

Involve Regional Bds in CA.

Will these site specific costs
be considered

Also downstream costs.

States have primacy. Can vary.

Ofc of DW has a cost team.

- will consider variations

Disp. of reverse osmosis wastes

For small systems output

is maybe slow enough to

not require special trmt.

Cornell Long

What do we know about
perchlorate generation
in WW streams?

(ask Ed)

Not an overriding concern
Suggest sample both
influent, effluent.

To EUWD

Follow-up in Feb.

Don't let the

201

dig

(5)

NEJAC meets early June
Bottled water Not available
in EJ communities
EPA lab in Cincinnati Not involved
Now.

Need contact list
Keep sending suggestions
to Catherine

Barbara NUDOP

Small program - DEP
Thanks for providing info

THANKS

- Formats - single exec. summaries
→ full detailed reports
- Full (-pdf format) copies of
study reports

Future Stakeholder Involvement (9)

Web page

Peter (JPL)

EWeb by links to other sites

NASA AF

No discussion paper

A meeting summary

Session topics as categories

Speaker list

Summary of meeting / for public

Electronic list serve?

Should be understandable to public.

Tom Goldtooth

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Fall 1998

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